

Figure 1A. Pattern Shaping Gain Adjustment in RF Section

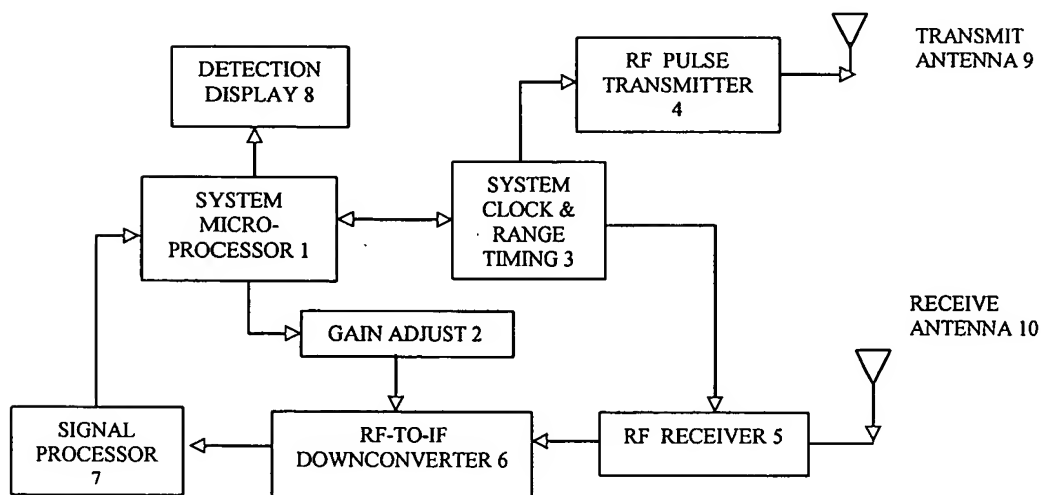


Figure 1B. Pattern Shaping Gain Adjustment in RF-to-IF Downconversion Section

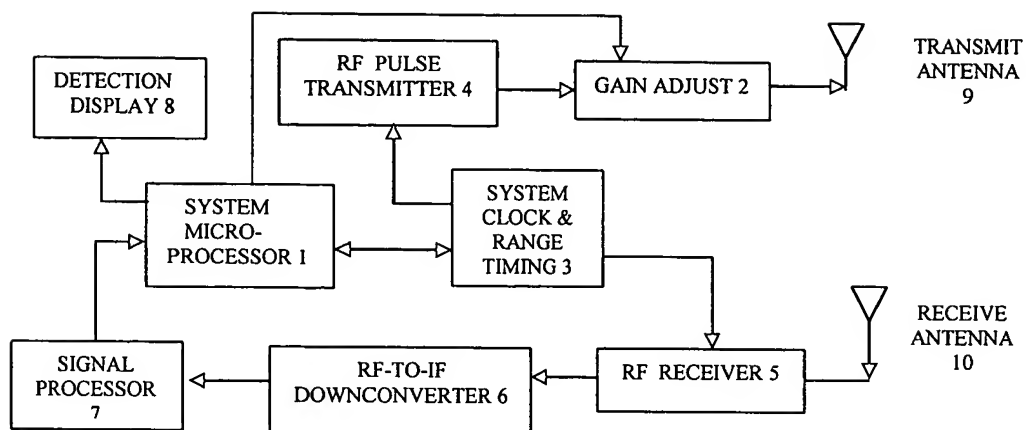


Figure 1C. Pattern Shaping Gain Adjustment Made in Transmitter Section

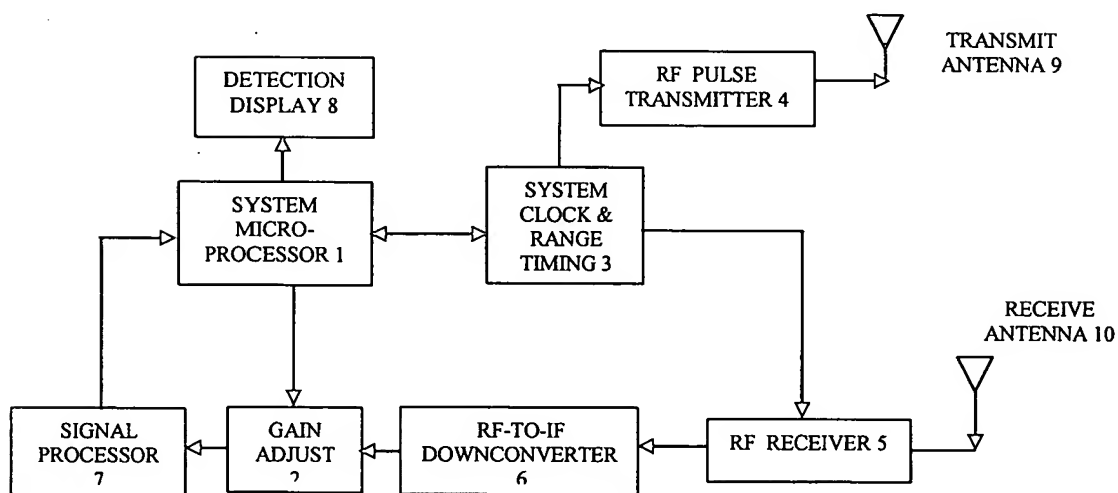


Figure 2. Pattern Shaping Gain Adjustment in Signal Processor Section

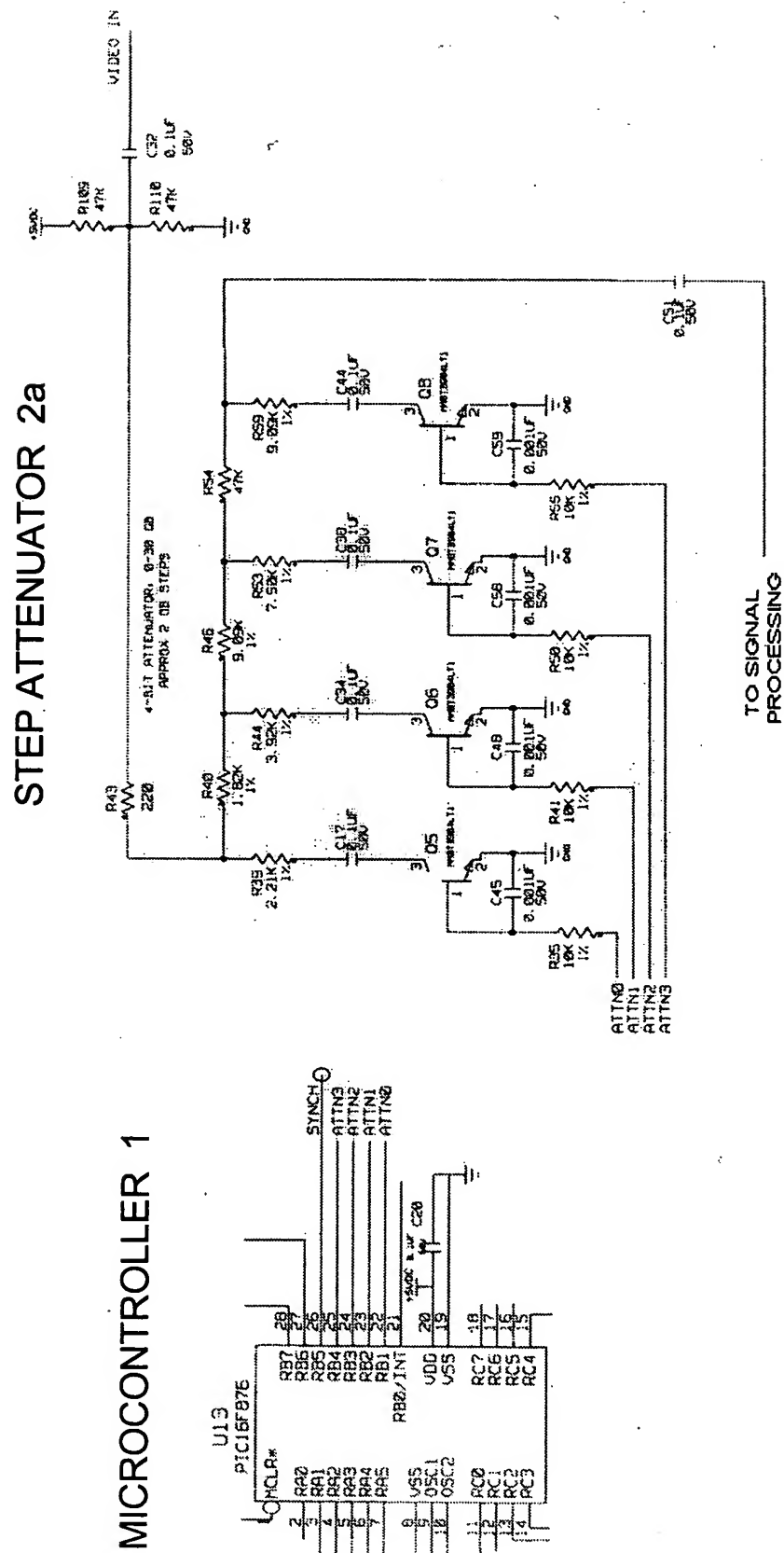


Figure 3. Schematic Diagram of a Preferred Method for Pattern Shaping

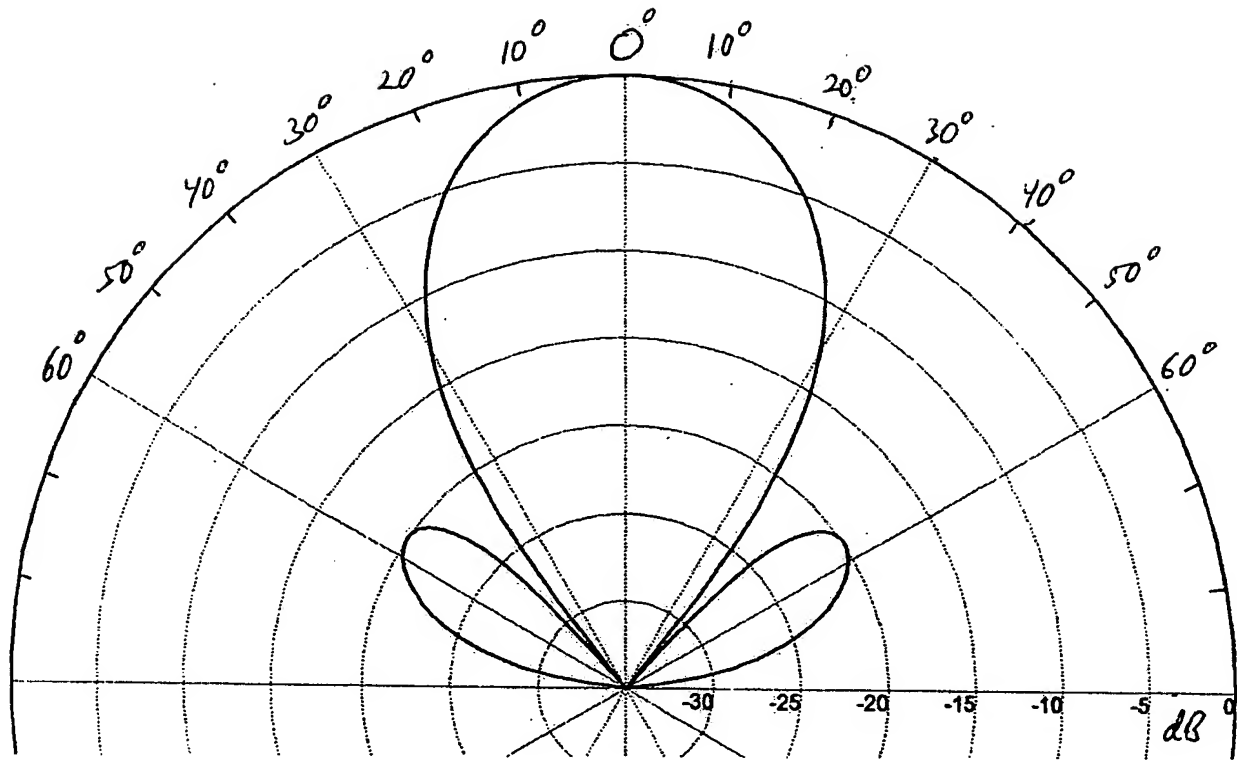
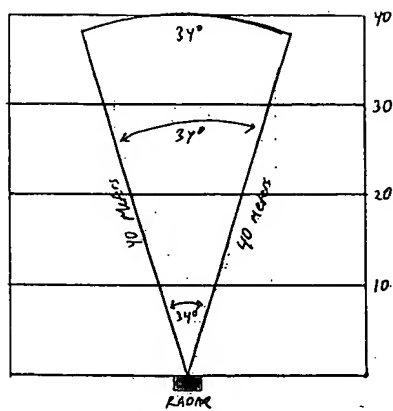
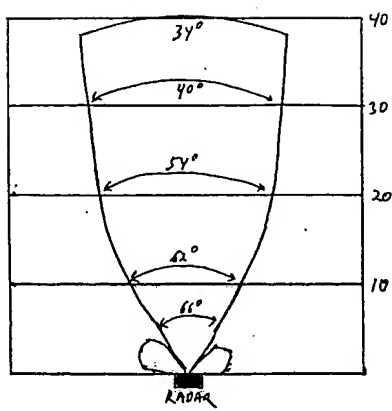


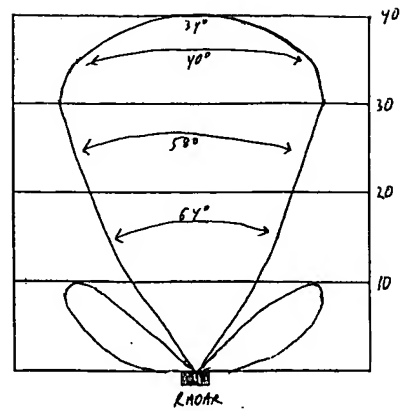
Figure 4. Typical Antenna Power Pattern Polar Plot



R^4 Correction
Fig. 5A

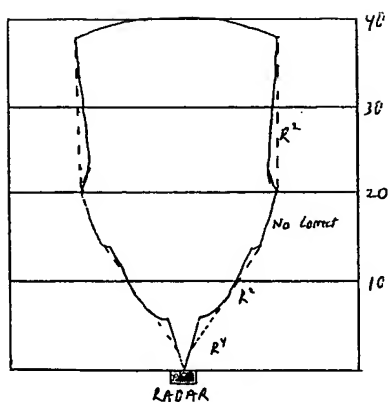


R^2 Correction
Fig. 5B

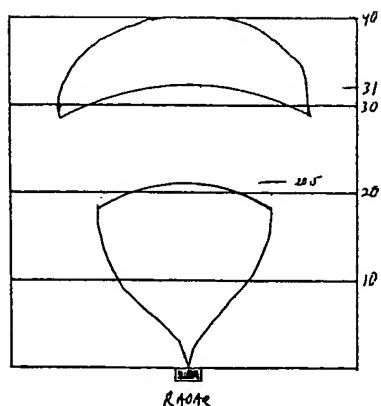


No Correction
Fig. 5C

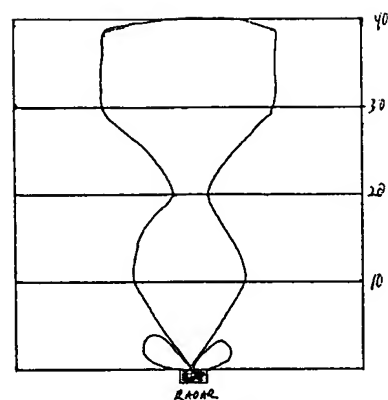
Figure 5. Typical Radar Detection Coverage Areas Corresponding To Fixed Range-Dependent Gain Correction



Pattern #1
Fig. 6A



Pattern #2
Fig. 6B



Pattern #3
Fig. 6C

Figure 6. Using Gain Adjustment to Shape Three Distinct Coverage Areas